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FILE COVERS 1907 - 22 Sep 2011 VOL 155 ISS 13

FILE LAST UPDATED: 21 Sep 2011 (20110921/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2011

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2011.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> e us20070055085/pn

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| E1 | 1 | US20070055083/PN |
| E2 | 1 | US20070055084/PN |
| E3 | 1 --> | US20070055085/PN |
| E4 | 2 | US20070055086/PN |
| E5 | 1 | US20070055087/PN |
| E6 | 1 | US20070055088/PN |
| E7 | 1 | US20070055093/PN |
| E8 | 1 | US20070055094/PN |
| E9 | 1 | US20070055095/PN |
| E10 | 1 | US20070055098/PN |
| E11 | 1 | US20070055099/PN |
| E12 | 1 | US20070055102/PN |

=> s e3

L1 1 US20070055085/PN

=> d all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN

AN 2005:523395 CAPLUS
 DN 143:68072
 ED Entered STN: 17 Jun 2005
 TI Asymmetric monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing the same
 IN Kubota, Mineyuki; Funahashi, Masakazu
 PA Idenitsu Kosan Co., Ltd., Japan
 SO PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 Section cross-reference(s): 25

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | WO 2005054162 | A1 | 20050616 | WO 2004-JP18111 | 20041130 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| | RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| | EP 1707550 | A1 | 20061004 | EP 2004-799959 | 20041130 |
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| | CN 1871192 | A | 20061129 | CN 2004-80031556 | 20041130 |
| | CN 100471827 | C | 20090325 | | |
| | US 20070055085 | A1 | 20070308 | US 2006-572586 | 20060320 <-- |
| | KR 2006108642 | A | 20061018 | KR 2006-7008388 | 20060428 |
| | IN 2006CN01453 | A | 20070706 | IN 2006-CN1453 | 20060428 |
| | IN 234627 | A1 | 20090717 | | |
| | IN 2009CN01179 | A | 20090529 | IN 2009-CN1179 | 20090302 |
| PRAI | JP 2003-401038 | A | 20031201 | | |
| | WO 2004-JP18111 | W | 20041130 | | |
| | IN 2006-CN1453 | A3 | 20060428 | | |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
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| WO 2005054162 | IPCI | C07C0015-27 [ICM,7]; C09K0011-06 [ICS,7]; H05B0033-14 [ICS,7] |
| | IPCR | C07C0013-573 [I,A]; C07C0015-27 [I,A]; C07C0015-28 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A]; H01L0051-50 [N,A]; H05B0033-14 [I,A] |
| | ECLA | C09K011/06; C07C013/573; C07C015/28; H01L051/00M6D; H01L051/00M6D12; H05B033/14; M07C103:24; M09K211:10B2; M09K211:10B4; M09K211:10B6; M09K211:10D4D2; T01L051:00M6F; T01L051:00M6F2; T01L051:00M12D4; T01L051:50E |
| EP 1707550 | IPCI | C07C0015-27 [ICM,7]; C09K0011-06 [ICS,7]; H05B0033-14 [ICS,7] |
| | IPCR | C07C0015-27 [I,A]; C07C0013-573 [I,A]; C07C0015-28 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A]; H01L0051-50 [N,A]; H05B0033-14 [I,A] |

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| CN 1871192 | IPCI | C07C0015-27 [I,A]; C09K0011-06 [I,A]; H05B0033-14 [I,A]; C07C0015-00 [I,C]; C07C0015-27 [I,A]; C09K0011-06 [I,C]; C09K0011-06 [I,A]; H05B0033-14 [I,C]; H05B0033-14 [I,A] |
| | IPCR | C07C0015-27 [I,A]; C07C0013-573 [I,A]; C07C0015-28 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A]; H01L0051-50 [N,A]; H05B0033-14 [I,A] |
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| US 20070055085 | IPCI | H01L0051-54 [I,A]; C09K0011-06 [I,A] |
| | NCL | 585/026.000; 257/E51.049; 313/504.000; 313/506.000; 428/690.000; 428/917.000 |
| KR 2006108642 | IPCI | C07C0015-27 [I,A]; C07C0015-28 [I,A]; C09K0011-06 [I,A]; H05B0033-14 [I,A] |
| | IPCR | C07C0015-27 [I,A]; C07C0013-573 [I,A]; C07C0015-28 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A]; H01L0051-50 [N,A]; H05B0033-14 [I,A] |
| | ECLA | C09K011/06; C07C013/573; C07C015/28; H01L051/00M6D; H01L051/00M6D12; H05B033/14; M07C103/24; M09K211/10B2; M09K211/10B4; M09K211/10B6; M09K211/10D4D2; T01L051/00M6F; T01L051/00M6F2; T01L051/00M12D4; T01L051/50E |
| IN 2006CN01453 | IPCI | C07C0015-27 [ICM,7]; C09K0011-06 [ICS,7] |
| IN 2009CN01179 | IPCI | C07C0015-27 [ICM,7] |
| OS | MARPAT 143:68072 | |

AB An asym. monoanthracene derivative of specified structure; and a material for organic EL device comprising the asym. monoanthracene derivative There is further provided an organic EL device comprising neg. and pos. electrodes and, interposed there between, an organic thin film layer consisting of one or two or more layers including at least a light emitting layer, wherein at least one layer of the organic thin film layer contains the asym. monoanthracene derivative alone or as a component of mixture There are provided an organic electroluminescent (EL) device of high luminous efficiency and prolonged durability and, for realization thereof, an asym. monoanthracene derivative and material for organic EL device.

ST asym monoanthracene deriv org electroluminescent device

IT Electroluminescent devices
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 2085-33-8 154853-83-5 164724-35-0 209980-53-0 669016-16-4 853945-46-7 853945-47-8
RL: DEV (Device component use); USES (Uses)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 853945-27-4P 853945-29-6P 853945-36-5P
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 68572-87-2P, 9-Phenanthrenylboronic acid 260558-15-4P 641144-16-3P 1219077-31-2P
RL: IMF (Industrial manufacture); PRPH (Prophetic); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 573-17-1, 9-Bromophenanthrene 18801-00-8, 2-tert-Butylanthracene
 RL: PRPH (Prophetic); RCT (Reactant); RACT (Reactant or reagent)
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 853945-28-5P 853945-30-9P 853945-31-0P 853945-32-1P 853945-33-2P
 853945-34-3P 853945-35-4P 853945-37-6P 853945-38-7P 853945-39-8P
 853945-40-1P 853945-41-2P 853945-42-3P 853945-43-4P 853945-44-5P
 853945-45-6P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 2052-07-5 3282-24-4 13922-41-3 18937-92-3 22082-97-9 204530-94-9
 377737-89-8 400607-48-9 667940-23-0 853945-49-0 853945-50-3
 853945-51-4 853945-52-5 853945-53-6 853945-54-7 853945-55-8
 853945-56-9 853945-57-0 853945-58-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

IT 853945-48-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
 UPOS.G Date last citing reference entered STN: 08 Oct 2009
 OS.G CAPLUS 2007:964034; 2007:565222; 2008:1427844; 2006:1034175
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE CITED REFERENCES
 (1) Idemitsu Kosan Co Ltd; JP 2000273056 A 2000 CAPLUS
 (2) Idemitsu Kosan Co Ltd; WO 0172673 A1 2002 CAPLUS
 (3) Idemitsu Kosan Co Ltd; EP 1182183 A1 2002 CAPLUS
 (4) Idemitsu Kosan Co Ltd; US 2002048687 A1 2002 CAPLUS
 (5) Idemitsu Kosan Co Ltd; EP 1333018 A1 2003 CAPLUS
 (6) Idemitsu Kosan Co Ltd; JP 2001335516 A 2003 CAPLUS
 (7) Tdk Corp; JP 2003338375 A 2003 CAPLUS
 (8) Xerox Corp; US 20020132134 A1 2002 CAPLUS

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STRUCTURE FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5
 DICTIONARY FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5

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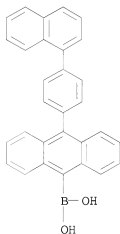
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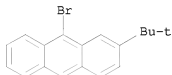


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11 REFERENCES IN FILE CA (1907 TO DATE)
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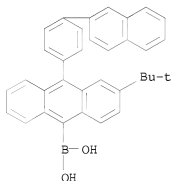
L2 ANSWER 1 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1219077-31-2 REGISTRY
ED Entered STN: 14 Apr 2010
CN Anthracene, 9-bromo-2-(1,1-dimethylethyl)- (CA INDEX NAME)
MF C18 H17 Br
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-58-1 REGISTRY
ED Entered STN: 06 Jul 2005
CN Boronic acid, B-[3-(1,1-dimethylethyl)-10-[4-(2-naphthalenyl)phenyl]-9-anthracenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, [3-(1,1-dimethylethyl)-10-[4-(2-naphthalenyl)phenyl]-9-anthracenyl]- (9CI)
MF C34 H29 B O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

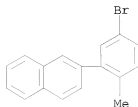


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-57-0 REGISTRY

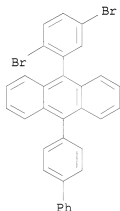
ED Entered STN: 06 Jul 2005
 CN Naphthalene, 2-(5-bromo-2-methylphenyl)- (CA INDEX NAME)
 MF C17 H13 Br
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 853945-56-9 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN Anthracene, 9-[1,1'-biphenyl]-4-yl-10-(2,5-dibromophenyl)- (CA INDEX NAME)
 MF C32 H20 Br2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

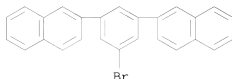


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 853945-55-8 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN Naphthalene, 2,2'-(5-bromo-1,3-phenylene)bis- (9CI) (CA INDEX NAME)
 MF C26 H17 Br

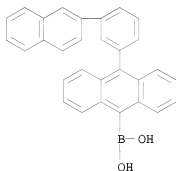
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

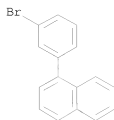
L2 ANSWER 6 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-54-7 REGISTRY
ED Entered STN: 06 Jul 2005
CN Boronic acid, B-[10-[3-(2-naphthalenyl)phenyl]-9-anthracenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, [10-[3-(2-naphthalenyl)phenyl]-9-anthracenyl]- (9CI)
OTHER NAMES:
CN [10-[3-(Naphthalen-2-yl)phenyl]anthracen-9-yl]boronic acid
MF C30 H21 B O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

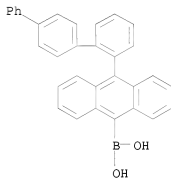
L2 ANSWER 7 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-53-6 REGISTRY
ED Entered STN: 06 Jul 2005
CN Naphthalene, 1-(3-bromophenyl)- (CA INDEX NAME)
OTHER NAMES:
CN 3-(1-Naphthyl)-1-bromobenzene
MF C16 H11 Br
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

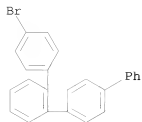
L2 ANSWER 8 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-52-5 REGISTRY
ED Entered STN: 06 Jul 2005
CN Boronic acid, (10-[1,1':4',1''-terphenyl]-2-yl-9-anthracenyl)- (9CI) (CA INDEX NAME)
MF C32 H23 B O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-51-4 REGISTRY
ED Entered STN: 06 Jul 2005
CN 1,1':2',1'':4'',1'''-Quaterphenyl, 4-bromo- (9CI) (CA INDEX NAME)
MF C24 H17 Br
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-50-3 REGISTRY
ED Entered STN: 06 Jul 2005
CN Boronic acid, B-[10-[4-(1-naphthalenyl)phenyl]-9-anthracenyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Boronic acid, [10-[4-(1-naphthalenyl)phenyl]-9-anthracenyl]- (9CI)

OTHER NAMES:

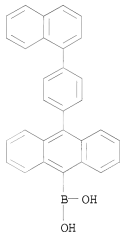
CN 10-(4-(1-Naphthenyl)phenyl)anthracene-9-boric acid

DR 871320-05-7

MF C30 H21 B O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL

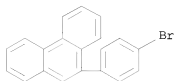


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-49-0 REGISTRY
ED Entered STN: 06 Jul 2005

CN Phenanthrene, 9-(4-bromophenyl)- (CA INDEX NAME)
MF C20 H13 Br
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



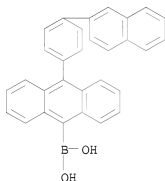
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 12 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-48-9 REGISTRY
ED Entered STN: 06 Jul 2005
CN Boronic acid, B-[10-[4-(2-naphthalenyl)phenyl]-9-anthracenyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

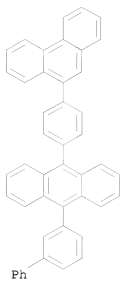
CN Boronic acid, [10-[4-(2-naphthalenyl)phenyl]-9-anthracenyl]- (9CI)
MF C30 H21 B O2
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

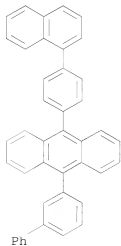
L2 ANSWER 13 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-47-8 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-3-yl-10-[4-(9-phenanthrenyl)phenyl]- (CA INDEX NAME)
MF C46 H30
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

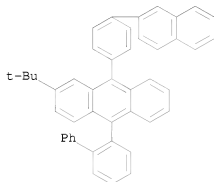
L2 ANSWER 14 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-46-7 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-3-yl-10-[4-(1-naphthalenyl)phenyl]- (CA
INDEX NAME)
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

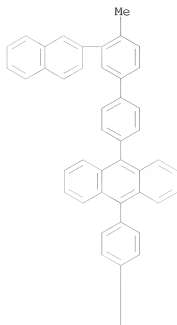
L2 ANSWER 15 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-45-6 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 10-[1,1'-biphenyl]-2-yl-2-(1,1-dimethylethyl)-9-[4-(2-naphthalenyl)phenyl]- (CA INDEX NAME)
MF C46 H36
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

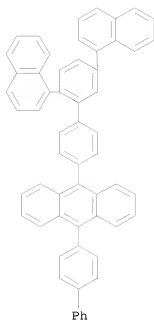
L2 ANSWER 16 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-44-5 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[4'-methyl-3'-(2-naphthalenyl)[1,1'-biphenyl]-4-yl]-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)
MF C53 H36
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

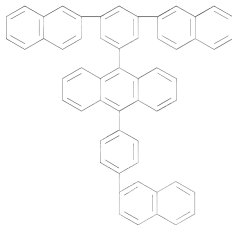
L2 ANSWER 17 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-43-4 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-4-yl-10-(2',5'-di-1-naphthalenyl[1,1'-
biphenyl]-4-yl)- (CA INDEX NAME)
MF C58 H38
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

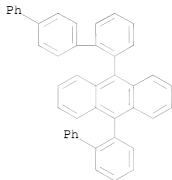
L2 ANSWER 18 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-42-3 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-(3,5-di-2-naphthalenylphenyl)-10-[4-(2-naphthalenyl)phenyl]-
(CA INDEX NAME)
MF C56 H36
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

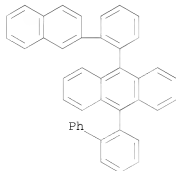
L2 ANSWER 19 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-41-2 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[1,1':4',1''-terphenyl]-2-yl- (9CI)
(CA INDEX NAME)
MF C44 H30
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

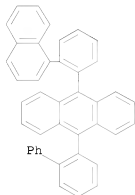
L2 ANSWER 20 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-40-1 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[2-(2-naphthalenyl)phenyl]- (CA
INDEX NAME)
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

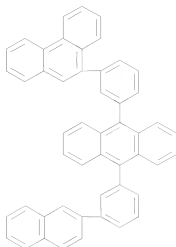
L2 ANSWER 21 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-39-8 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[2-(1-naphthalenyl)phenyl]- (CA
INDEX NAME)
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

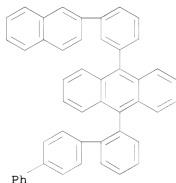
L2 ANSWER 22 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-38-7 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[3-(9-phenanthrenyl)phenyl]-
(CA INDEX NAME)
MF C50 H32
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-37-6 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[1,1':4',1''-terphenyl]-2-yl-
(9CI) (CA INDEX NAME)
MF C48 H32
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

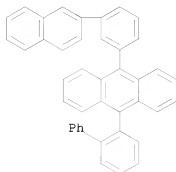


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-36-5 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(2-naphthalenyl)phenyl]- (CA
INDEX NAME)

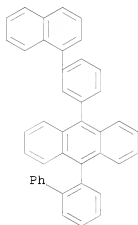
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-35-4 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(1-naphthalenyl)phenyl]- (CA
INDEX NAME)
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

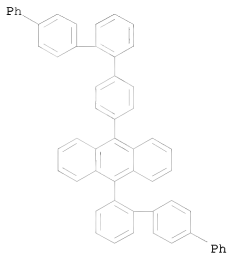


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-34-3 REGISTRY

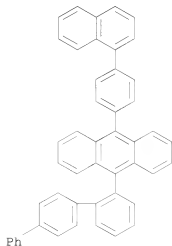
ED Entered STN: 06 Jul 2005
 CN Anthracene, 9-[1,1':2',1'':4'',1'''-quaterphenyl]-4-yl-10-[1,1':4',1''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)
 MF C56 H38
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

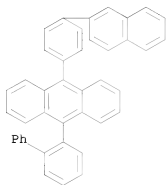
L2 ANSWER 27 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 853945-33-2 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN Anthracene, 9-[4-(1-naphthalenyl)phenyl]-10-[1,1':4',1''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)
 MF C48 H32
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

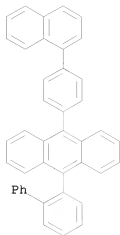
L2 ANSWER 28 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-32-1 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(2-naphthalenyl)phenyl]- (CA
INDEX NAME)
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

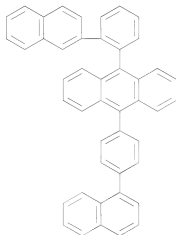
L2 ANSWER 29 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-31-0 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(1-naphthalenyl)phenyl]- (CA
INDEX NAME)
MF C42 H28
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-30-9 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[2-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]-
(CA INDEX NAME)
MF C46 H30
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

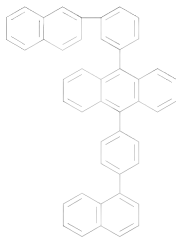


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN

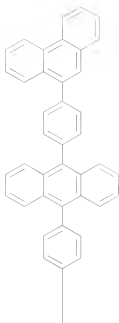
RN 853945-29-6 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]-
 (CA INDEX NAME)
 MF C46 H30
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

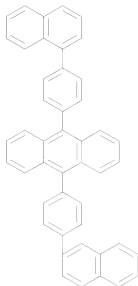
L2 ANSWER 32 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 853945-28-5 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN Anthracene, 9-[4-(2-naphthalenyl)phenyl]-10-[4-(9-phenanthrenyl)phenyl]-
 (CA INDEX NAME)
 MF C50 H32
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 853945-27-4 REGISTRY
ED Entered STN: 06 Jul 2005
CN Anthracene, 9-[4-(1-naphthalenyl)phenyl]-10-[4-(2-naphthalenyl)phenyl]-
(CA INDEX NAME)
MF C46 H30
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL

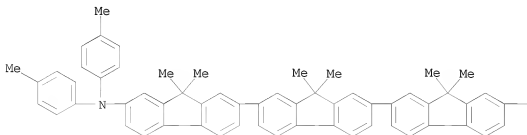


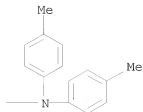
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 34 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 669016-16-4 REGISTRY
 ED Entered STN: 30 Mar 2004
 CN [2,2':7',2''-Ter-9H-fluorene]-7,7''-diamine,
 9,9,9',9',9'',9''-hexamethyl-N7,N7,N7'',N7''-tetrakis(4-methylphenyl)-
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN [2,2':7',2''-Ter-9H-fluorene]-7,7''-diamine,
 9,9,9',9',9'',9''-hexamethyl-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI)
 MF C73 H64 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

PAGE 1-A

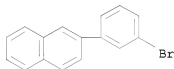




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21 REFERENCES IN FILE CA (1907 TO DATE)
21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

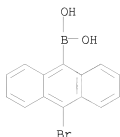
L2 ANSWER 35 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 667940-23-0 REGISTRY
ED Entered STN: 26 Mar 2004
CN Naphthalene, 2-(3-bromophenyl)- (CA INDEX NAME)
OTHER NAMES:
CN 2-(3-Bromophenyl)naphthalene
MF C16 H11 Br
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

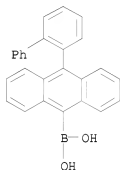
L2 ANSWER 36 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 641144-16-3 REGISTRY
ED Entered STN: 23 Jan 2004
CN Boronic acid, B-(10-bromo-9-anthracenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, (10-bromo-9-anthracenyl)- (9CI)
OTHER NAMES:
CN 9-Bromoanthracen-10-boronic acid
CN 9-Bromoanthracene-10-boronic acid
MF C14 H10 B Br O2
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

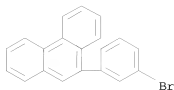
L2 ANSWER 37 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 400607-48-9 REGISTRY
ED Entered STN: 12 Mar 2002
CN Boronic acid, B-(10-[1,1'-biphenyl]-2-yl-9-anthracenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, (10-[1,1'-biphenyl]-2-yl-9-anthracenyl)- (9CI)
MF C26 H19 B O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



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16 REFERENCES IN FILE CA (1907 TO DATE)
16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

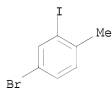
L2 ANSWER 38 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 377737-89-8 REGISTRY
ED Entered STN: 21 Dec 2001
CN Phenanthrene, 9-(3-bromophenyl)- (CA INDEX NAME)
MF C20 H13 Br
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



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5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

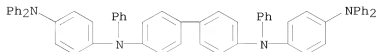
L2 ANSWER 39 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 260558-15-4 REGISTRY
ED Entered STN: 03 Apr 2000
CN Benzene, 4-bromo-2-iodo-1-methyl- (CA INDEX NAME)
OTHER NAMES:
CN 4-Bromo-2-iodotoluene
MF C7 H6 Br I
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, TOXCENTER, USPAT2, USPATFULL



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9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

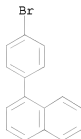
L2 ANSWER 40 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 209980-53-0 REGISTRY
ED Entered STN: 16 Aug 1998
CN [1,1'-Biphenyl]-4,4'-diamine, N4,N4'-bis[4-(diphenylamino)phenyl]-N4,N4'-diphenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN [1,1'-Biphenyl]-4,4'-diamine, N,N'-bis[4-(diphenylamino)phenyl]-N,N'-diphenyl- (9CI)
OTHER NAMES:
CN 4,4'-Bis[N-(4-diphenylaminophenyl)-N-phenylamino]biphenyl
CN 4,4'-Bis[N-phenyl-N-[4-(diphenylamino)phenyl]amino]-1,1'-biphenyl
MF C60 H46 N4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

80 REFERENCES IN FILE CA (1907 TO DATE)
80 REFERENCES IN FILE CAPLUS (1907 TO DATE)

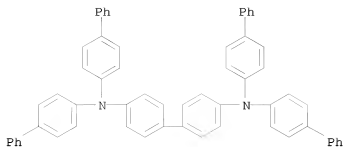
L2 ANSWER 41 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 204530-94-9 REGISTRY
ED Entered STN: 23 Apr 1998
CN Naphthalene, 1-(4-bromophenyl)- (CA INDEX NAME)
OTHER NAMES:
CN 1-(4-Bromophenyl)naphthalene
CN 1-(p-Bromophenyl)naphthalene
MF C16 H11 Br
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

38 REFERENCES IN FILE CA (1907 TO DATE)
38 REFERENCES IN FILE CAPLUS (1907 TO DATE)

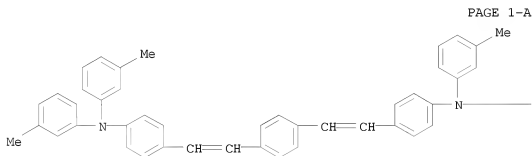
L2 ANSWER 42 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
RN 164724-35-0 REGISTRY
ED Entered STN: 13 Jul 1995
CN [1,1'-Biphenyl]-4,4'-diamine, N4,N4,N4',N4'-tetrakis([1,1'-biphenyl]-4-yl)-
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN [1,1'-Biphenyl]-4,4'-diamine, N,N,N',N'-tetrakis([1,1'-biphenyl]-4-yl)-
(9CI)
OTHER NAMES:
CN 4,4'-Bis[bis(4-biphenyl)amino]biphenyl
CN N,N,N',N'-Tetra(4-biphenyl)benzidine
CN N,N,N',N'-Tetrakis(biphenyl-4-yl)benzidine
MF C60 H44 N2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

119 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 119 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 43 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 154853-83-5 REGISTRY
 ED Entered STN: 06 May 1994
 CN Benzenamine, 4,4'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (CA INDEX NAME)
 MF C50 H44 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PAGE 1-B

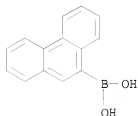


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

28 REFERENCES IN FILE CA (1907 TO DATE)
 28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 44 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN

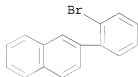
RN 68572-87-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Boronic acid, B-9-phenanthrenyl- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 9-Phenanthreneboronic acid (6CI)
 CN Boronic acid, 9-phenanthrenyl- (9CI)
 OTHER NAMES:
 CN (9-Phenanthryl)boronic acid
 CN Phenanthren-9-ylboronic acid
 MF C14 H11 B O2
 LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
 REAXYSFILE*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

127 REFERENCES IN FILE CA (1907 TO DATE)
 129 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 45 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 22082-97-9 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Naphthalene, 2-(2-bromophenyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Naphthalene, 2-(o-bromophenyl)- (8CI)
 OTHER NAMES:
 CN 2-(2-Bromophenyl)naphthalene
 CN 2-Naphthylbromobenzene
 MF C16 H11 Br
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, REAXYSFILE*,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)

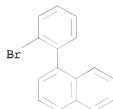


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 46 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN

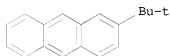
RN 18937-92-3 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Naphthalene, 1-(2-bromophenyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Naphthalene, 1-(o-bromophenyl)- (8CI)
 OTHER NAMES:
 CN 1-(2-Bromophenyl)naphthalene
 MF C16 H11 Br
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, REAXYSFILE*, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

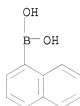
L2 ANSWER 47 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 18801-00-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Anthracene, 2-(1,1-dimethylethyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Anthracene, 2-tert-butyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 2-(1,1-Dimethylethyl)anthracene
 CN 2-tert-Butylanthracene
 MF C18 H18
 CI COM
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, IFICDB,
 IFIPAT, IFIUDB, REAXYSFILE*, SPECINFO, TOXCENTER, USPAT2, USPATFULL,
 USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

62 REFERENCES IN FILE CA (1907 TO DATE)
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 62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

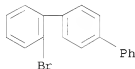
L2 ANSWER 48 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 13922-41-3 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Boronic acid, B-1-naphthalenyl- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Naphthaleneboronic acid (6CI, 7CI, 8CI)
 CN Boronic acid, 1-naphthalenyl- (9CI)
 OTHER NAMES:
 CN (1-Naphthalenyl)boronic acid
 CN α -Naphthaleneboronic acid
 CN α -Naphthylboronic acid
 CN 1-Naphthylboric acid
 CN 1-Naphthylboronic acid
 CN NSC 78936
 MF C10 H9 B O2
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, GMELIN*, IFICDB, IFIPAT, IFIUDB, REAXYSFILE*, TOXCENTER,
 USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1503 REFERENCES IN FILE CAPLUS (1907 TO DATE)

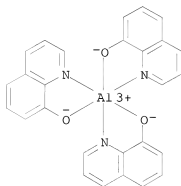
L2 ANSWER 49 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 3282-24-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 1,1':4',1''-Terphenyl, 2-bromo- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN p-Terphenyl, 2-bromo- (7CI, 8CI)
 MF C18 H13 Br
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, REAXYSFILE*, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 50 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 2085-33-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Aluminum, tris(8-quinolinolato-κN1,κO8)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Aluminum, tris(8-quinolinolato)- (6CI, 7CI, 8CI)
 CN Aluminum, tris(8-quinolinolato-N1,O8)-
 OTHER NAMES:
 CN 8-Hydroxyquinoline aluminum
 CN Al 8Q
 CN Alq
 CN Alq3
 CN Aluminum 8-hydroxyquinolate
 CN Aluminum oxinate
 CN Aluminum tris(8-hydroxyquinolate)
 CN Aluminum tris(8-quinolinolate)
 CN Aluminum, tris(8-hydroxyquinolato)-
 CN Hydroxyquinoline aluminum
 CN LT-E 401
 CN Tri-8-quinolinolatoaluminum
 CN Tris(8-hydroxyquinolato)aluminum
 CN Tris(8-hydroxyquinolate)aluminum
 CN Tris(8-hydroxyquinolinato)aluminum
 CN Tris(8-hydroxyquinolinol-N1,O8)aluminum
 CN Tris(8-quinolinol)aluminum
 CN Tris(8-quinolinolato)aluminum
 CN Tris(8-quinolinolato)aluminum(III)
 CN Tris-(8-hydroxyquinoline)aluminum
 DR 11094-99-8, 24731-66-6
 MF C27 H18 Al N3 O3
 CI CCS, COM
 LC STN Files: AGRICOLA, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, GMELIN*,
 IFICDB, IFIPAT, IFIUDB, MRCK*, PIRA, REAXYSFILE*, RTECS*, TOXCENTER,
 USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 10782 REFERENCES IN FILE CAPLUS (1907 TO DATE)

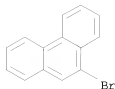
L2 ANSWER 51 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 2052-07-5 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 1,1'-Biphenyl, 2-bromo- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Biphenyl, 2-bromo- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 1-Bromo-2-phenylbenzene
 CN 2-Biphenyl bromide
 CN 2-Biphenyl bromide
 CN 2-Bromo-1,1'-biphenyl
 CN 2-Bromobiphenyl
 CN 2-Phenylbromobenzene
 CN m-Biphenyl bromide
 CN NSC 67353
 CN o-Bromobiphenyl
 CN PBB 1
 MF C12 H9 Br
 LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,
 CSNB, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDS, REAXYSFILE*, SPECINFO,
 TOXCENTER, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

602 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 604 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 52 OF 52 REGISTRY COPYRIGHT 2011 ACS on STN
 RN 573-17-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Phenanthrene, 9-bromo- (CA INDEX NAME)
 OTHER NAMES:
 CN 9-Bromophenanthrene
 CN 9-Phenanthryl bromide
 CN NSC 400708
 MF C14 H9 Br
 CI COM
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CSNB, DETHERM*, EMBASE, GMELIN*, REAXYSFILE*, RTECS*,
 SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

559 REFERENCES IN FILE CA (1907 TO DATE)
561 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

| | | |
|--------------------------------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 115.99 | 123.32 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -0.87 |

FILE 'REGISTRY' ENTERED AT 18:07:29 ON 22 SEP 2011
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provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5
DICTIONARY FILE UPDATES: 21 SEP 2011 HIGHEST RN 1333106-84-5

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experimental property data in the original document. For information
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 43 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3 1 154853-83-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

| | | |
|--------------------------------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.61 | 123.93 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -0.87 |

FILE 'CAPLUS' ENTERED AT 18:07:32 ON 22 SEP 2011
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FILE COVERS 1907 - 22 Sep 2011 VOL 155 ISS 13
FILE LAST UPDATED: 21 Sep 2011 (20110921/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2011.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3

L4 28 L3

=> S L4 AND 1999<=PY<=2002
3962751 1999<=PY<=2002

L5 1 L4 AND 1999<=PY<=2002

=> DIS L5 1 IBIB

THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2000:115248 CAPLUS
DOCUMENT NUMBER: 132:158896
TITLE: Electrophotographic photoreceptor suitable for use
with semiconductor laser for process cartridge of
electrophotographic apparatus
INVENTOR(S): Kunieda, Mitsuhiro
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|--------------|
| JP 2000047404 | A | 20000218 | JP 1998-217781 | 19980731 <-- |
| JP 3937602 | B2 | 20070627 | | |
| PRIORITY APPLN. INFO.: | | | JP 1998-217781 | 19980731 |
| OTHER SOURCE(S): | MARPAT | 132:158896 | | |

=> S L4 AND 2003<=PY<=2004
2474565 2003<=PY<=2004
L6 5 L4 AND 2003<=PY<=2004

=> DIS L6 1 IBIB
THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:453560 CAPLUS
DOCUMENT NUMBER: 141:30841
TITLE: Organic electroluminescent device
INVENTOR(S): Funahashi, Masakazu; Fukuoka, Kenichi; Hosokawa,
Chishio
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------|------|----------|------------------|--------------|
| WO 2004047500 | A1 | 20040603 | WO 2003-JP14426 | 20031113 <-- |
| W: CN, KR, US | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, | | | | |
| IT, LU, MC, NL, PT, RO, SE, SI, SK, TR | | | | |
| JP 2004171828 | A | 20040617 | JP 2002-333865 | 20021118 <-- |
| JP 4152173 | B2 | 20080917 | | |
| EP 1578175 | A1 | 20050921 | EP 2003-774011 | 20031113 |
| EP 1578175 | B1 | 20110511 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, | | | | |
| IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK | | | | |
| CN 1714605 | A | 20051228 | CN 2003-80103556 | 20031113 |
| CN 100483776 | C | 20090429 | | |

KR 1009784 B1 20110119 KR 2005-7008947 20031113
 AT 509504 T 20110515 AT 2003-774011 20031113
 US 20060055305 A1 20060316 US 2005-535311 20050518
 JP 2008258641 A 20081023 JP 2008-122897 20080509
 PRIORITY APPLN. INFO.: JP 2002-333865 A 20021118
 WO 2003-JP14426 W 20031113
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
 (13 CITINGS)
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L6 2 IBIB
 THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:453559 CAPLUS
 DOCUMENT NUMBER: 141:14295
 TITLE: Organic electroluminescent device
 INVENTOR(S): Fukuoka, Kenichi; Matsuura, Masahide; Yamamoto,
 Hiroshi; Hosokawa, Chishio
 PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 76 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------|------------------|--------------|
| WO 2004047499 | A1 | 20040603 | WO 2003-JP14425 | 20031113 <-- |
| W: CN, KR, US | | | | |
| RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR | | | | |
| JP 2004221045 | A | 20040805 | JP 2003-152276 | 20030529 <-- |
| JP 4287198 | B2 | 20090701 | | |
| EP 1565041 | A1 | 20050817 | EP 2003-774010 | 20031113 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK | | | | |
| CN 1729725 | A | 20060201 | CN 2003-80106876 | 20031113 |
| CN 100518424 | C | 20090722 | | |
| KR 1008769 | B1 | 20110114 | KR 2005-7008946 | 20031113 |
| US 20060043859 | A1 | 20060302 | US 2005-535310 | 20050518 |
| US 7663304 | B2 | 20100216 | | |
| JP 2009105067 | A | 20090514 | JP 2009-26587 | 20090206 |
| US 20100141129 | A1 | 20100610 | US 2010-654965 | 20100111 |
| PRIORITY APPLN. INFO.: | | | JP 2002-333812 | A 20021118 |
| | | | JP 2003-152276 | A 20030529 |
| | | | WO 2003-JP14425 | W 20031113 |
| | | | US 2005-535310 | A1 20050518 |
| ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT | | | | |
| OTHER SOURCE(S): | MARPAT | 141:14295 | | |
| OS.CITING REF COUNT: | 5 | THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD | | |
| | | (11 CITINGS) | | |
| REFERENCE COUNT: | 17 | THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS | | |
| | | RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

=> DIS L6 3 IBIB

THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:198497 CAPLUS
DOCUMENT NUMBER: 140:225545
TITLE: Phenylanthracenes for blue-emitting organic
electroluminescent devices having high luminescent
intensity and efficiency
INVENTOR(S): Kawamura, Hisayuki
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|-------------|--------------------------------------|--------------|
| ----- | --- | ---- | ----- | ----- |
| JP 2004075580 | A | 20040311 | JP 2002-235538 | 20020813 <-- |
| JP 4065161 | B2 | 20080319 | | |
| PRIORITY APPLN. INFO.: | | | JP 2002-235538 | 20020813 |
| OTHER SOURCE(S): | MARPAT | 140:225545 | | |
| OS.CITING REF COUNT: | 1 | THERE ARE 1 | CAPLUS RECORDS THAT CITE THIS RECORD | |
| | | (1 CITINGS) | | |

=> DIS L6 4 IBIB

THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:162657 CAPLUS
DOCUMENT NUMBER: 140:225502
TITLE: Oligoarylene derivatives for organic
electroluminescent devices
INVENTOR(S): Ikeda, Hidetsugu; Matsuuru, Masahide; Kawamura,
Hisayuki
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------|------|----------|-----------------|--------------|
| ----- | --- | ---- | ----- | ----- |
| WO 2004016575 | A1 | 20040226 | WO 2003-JP10071 | 20030807 <-- |
| W: CN, KR, US | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, | | | | |
| IT, LU, MC, NL, PT, RO, SE, SI, SK, TR | | | | |
| JP 2004075567 | A | 20040311 | JP 2002-234833 | 20020812 <-- |
| EP 1533290 | A1 | 20050525 | EP 2003-788055 | 20030807 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, | | | | |
| IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK | | | | |
| CN 1675149 | A | 20050928 | CN 2003-819058 | 20030807 |
| TW 287408 | B | 20070921 | TW 2003-122023 | 20030811 |
| US 20060134456 | A1 | 20060622 | US 2005-522546 | 20050127 |

US 7429425 B2 20080930
 US 20090009073 A1 20090108 US 2008-208237 20080910
 US 20090009074 A1 20090108 US 2008-208253 20080910
 PRIORITY APPLN. INFO.: JP 2002-234833 A 20020812
 WO 2003-JP10071 W 20030807
 US 2005-522546 A1 20050127

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 140:225502
 OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS
 RECORD (48 CITINGS)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L6 5 IBIB
 THE ESTIMATED COST FOR THIS REQUEST IS 1.35 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:157685 CAPLUS
 DOCUMENT NUMBER: 140:225494
 TITLE: Anthracenes as electroluminescent substances for
 organic electroluminescent devices
 INVENTOR(S): Ikeda, Shuji; Ido, Motohisa; Funabashi, Masakazu;
 Shoji, Hiroshi
 PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|-----------------------------------------------------------------|-----------------|--------------|
| JP 2004059535 | A | 20040226 | JP 2002-222990 | 20020731 <-- |
| JP 4025136 | B2 | 20071219 | | |
| PRIORITY APPLN. INFO.: | | | JP 2002-222990 | 20020731 |
| OTHER SOURCE(S): | MARPAT 140:225494 | | | |
| OS.CITING REF COUNT: | 3 | THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS) | | |

=> d his

(FILE 'HOME' ENTERED AT 18:03:20 ON 22 SEP 2011)

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L1 1 S E3
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L2 FILE 'REGISTRY' ENTERED AT 18:04:50 ON 22 SEP 2011
 52 S E1-E52

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 SEL L2 43 RN

L3 1 S E1/RN

SET TERMSET LOGIN

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| L4 | 28 S L3 |
| L5 | 1 S L4 AND 1999<=PY<=2002 |
| L6 | 5 S L4 AND 2003<=PY<=2004 |